

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/542,920	04/04/2000	Patrice Onno	1807.1249	5750
5514	7590 01/30/2003			
FITZPATRICK CELLA HARPER & SCINTO			EXAMINER	
	30 ROCKEFELLER PLAZA NEW YORK, NY 10112		GHULAMALI, QUTBUDDIN	
		•	ART UNIT	PAPER NUMBER
			2631	
:5		DATE MAILED: 01/30/2003		
	/			

Please find below and/or attached an Office communication concerning this application or proceeding.

3

	_	Application No.	Applicant(s)					
. Office Action Summary		09/542,920	ONNO ET AL.					
		Examiner	Art Unit					
		Qutub Ghulamali	2631	· 77				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the d	correspondence ad	dress 1/				
THE I - External after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed  vs will be considered timel the mailing date of this of D (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) filed on 4/4/2	<u> 2000</u> .						
2a)□		is action is non-final.						
3)	· <u> </u>							
Dispositi	ion of Claims							
4)⊠	Claim(s) 1-31 is/are pending in the application	<b>l.</b> .						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	•					
5)	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-31</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
• -	Claim(s) are subject to restriction and/or on Papers	r election requirement.	•					
• •	The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on <u>04 April 2000</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority u	ınder 35 U.S.C. §§ 119 and 120							
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).					
a)[	☑ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents have been received in Application No							
* S	3. Copies of the certified copies of the prior application from the International Bursee the attached detailed Office action for a list of the control of th	reau (PCT Rule 17.2(a)).		Stage				
14) 🗌 A	cknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(	e) (to a provisional	application).				
	)  The translation of the foreign language pro Acknowledgment is made of a claim for domesti							
Attachment	t(s)							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No( Patent Application (PT					
S. Patent and To	adamark Office							

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#### **DETAILED ACTION**

### Specification

- 1. The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.
- 2. The disclosure is objected to because of the following informalities:

In the present instance on page 4, line 25, Figure 8 is a Horizontal Filtering Module and not a Buffer Module as indicated.re specified as 41-r3.

Appropriate corrections are required.

3. The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

### Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.

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- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

In the present instance, the specification lacks the background and summary titles.

Appropriate corrections are required.

#### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:
  - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 4. Claims 5,11,19 and 25 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The above claims refers to "transformed zone by zone, a zone of the signal being processed at all the resolution levels before passing on to a following zone", is not clearly described. According to the best of ability the zone can be interpreted to mean block by block or sub-band by sub-band of the signal.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1, 7, 15, 21, 27, 29, 30, and 31 are rejected under 35 U.S.C. 102(e) as being anticipated by Charrier et al. Charrier teaches (Col 7, lines 41-57) a digital signal coding device and method of transforming the digital signal into a plurality of frequency sub-bands distributed in at least two different frequency bands and at least two different resolutions, one having a lower frequency and the other a higher frequency. Dividing the signal into blocks (fig 12) and selecting first and second blocks and transforming (preprocessing) the second blocks by applying a second preprocessing mode and coding the sub-band including the preprocessed blocks by applying a third coding mode to form third blocks with the same predetermined number of samples.

### Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2-4, 6, 8-10, 12-14, 16-18, 22-24, 26, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Charrier (US Patent No. 6,501,860) in view of Cho (US Patent No. 6,487,318.

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As applied to claims 1, 7, 15 and 21 above, Charrier teaches every feature of the claimed invention, but does not explicitly teach transformation as a wavelet transform. In the same field of endeavor, Cho teaches transforming image data into wavelet packet coefficients having several frequency bands (col. 3, lines 60-62) and further processing four smallest sub-bands and relocating and integrating (grouping) the sub-bands and other adjacent bands, having the same size into a bigger band to a wavelet transformed digital signal (figures 7A and 8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Charrier device to include use of a wavelet transforming method to transform the digital signal as taught by Cho, see col. 4, lines 54-67 and col. 5, lines1-6.

#### Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qutub Ghulamali whose telephone number is (703) 305-7868. The examiner can normally be reached during normal business day from Monday-Friday from 8:00AM- 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 703 305-4378. The fax phone numbers for the organization where this application or proceeding is assigned are 703 305-3988 for regular communications and 703 305-3988 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-4750.

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QG January 24, 2003

DON N. VO PRIMARY EXAMINER